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✓ Rejected
 = Allowed
 - (Through numeral)... Canceled
 + Restricted

N Non-elected
 I Interference
 A Appeal
 O Objected

3002/5010
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Claim	Final	Original	Date
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CLAIMS ONLY							SERIAL NO.	FILING DATE	
							APPLICANT(S)		
CLAIMS									
	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT			*	*
	IND.	DEP.	IND.	DEP.	IND.	DEP.		IND.	DEP.
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48							98		
49							99		
50							100		
TOTAL IND.							TOTAL IND.		
TOTAL DEP.							TOTAL DEP.		
TOTAL CLAIMS							TOTAL CLAIMS		

* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-99)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLAIMS ONLY

SERIAL NO.

FILING DATE

APPLICANT(S)

CLAIMS

	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT	
	IND.	DEP.	IND.	DEP.	IND.	DEP.
1	1					
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TOTAL IND.	11					
TOTAL DEP.	291					
TOTAL CLAIMS	302					

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	IND.	DEP.	IND.	DEP.	IND.	DEP.
51		1				
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68		2				
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70		2				
71		3				
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73		2				
74	1					
75		1				
76		1				
77		1				
78		1				
79		1				
80		2				
81		2				
82		2				
83		2				
84		2				
85		1				
86		2				
87		2				
88		2				
89		2				
90		①				
91		②				
92		③				
93		④				
94		⑤				
95		1				
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97		1				
98		1				
99		1				
100		1				
TOTAL IND.						
TOTAL DEP.						
TOTAL CLAIMS						

* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

CLAIMS ONLY

SERIAL NO.

FILING DATE

APPLICANT(S)

CLAIMS

	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT	
	IND.	DEP.	IND.	DEP.	IND.	DEP.
101		/				
102		/				
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TOTAL IND.						
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TOTAL CLAIMS						

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	IND.	DEP.	IND.	DEP.	IND.	DEP.
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158		2				
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TOTAL IND.						
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TOTAL CLAIMS						

* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

CLAIMS ONLY							SERIAL NO.	FILING DATE
							APPLICANT(S)	
CLAIMS								
AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT				
IND.	DEP.	IND.	DEP.	IND.	DEP.	*	*	*
1	2					51	/	
2	3					52	/	
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9	10					59	6	
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11	12					61	8	
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44	45					94		
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TOTAL IND.						TOTAL IND.		
TOTAL DEP.						TOTAL DEP.		
TOTAL CLAIMS						TOTAL CLAIMS		

* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-2022 (1-98)

U.S. Government Printing Office: 1998 - 433-214/70303

CLAIMS ONLY							SERIAL NO.	FILING DATE
							APPLICANT(S)	
CLAIMS								
	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT			
	IND.	DEP.	IND.	DEP.	IND.	DEP.		
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* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-98)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLAIMS ONLY							SERIAL NO.	FILING DATE
							APPLICANT(S)	
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* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-98)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLAIMS ONLY							SERIAL NO.	FILING DATE
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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office